

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	12304	(regulating module) or (current regulator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 14:54
S2	21643	((light emitting diode\$3) or "LED") array)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:10
S3	129	S1 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/08/31 17:37
S4	114	S1 and S2 and control	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 10:49
S5	2	("0679283").PN.	USPAT; USOCR	OR	OFF	2007/06/13 11:40
S6	1	("6791283").PN.	USPAT; USOCR	OR	OFF	2006/08/31 18:00
S7	0	("006and1").PN.	USPAT; USOCR	OR	OFF	2006/08/31 18:00
S8	1	"6791283".pn. and S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/08/31 18:06
S9	202	"6777891" or "5661374" or "5661645" or "7009580" or "6641294" or "6670776" or "6203180" or "6481877" or "5008595" or "6864641".pn. and S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/08/31 18:09
S10	20	("6777891" or "5661374" or "5661645" or "7009580" or "6641294" or "6670776" or "6203180" or "6481877" or "5008595" or "6864641".pn.) and S1	USPAT	NEAR	ON	2006/08/31 18:11
S11	3	("6777891" or "5661374" or "5661645" or "7009580" or "6641294" or "6670776" or "6203180" or "6481877" or "5008595" or "6864641").pn. and S1	USPAT	NEAR	ON	2006/08/31 18:14

## EAST Search History

S12	2	"20030102819" or "20040090787"	US-PGPUB	NEAR	ON	2006/08/31 18:15
S13	1	S12 and S1	US-PGPUB	NEAR	ON	2006/08/31 18:15
S14	42378	((light emitting diod\$3) or "LED") with (array or matrix or string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/12 13:22
S15	107469	(regulating module) or (current regulat\$4) or (voltage regulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/12 13:23
S16	1475	S14 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 10:42
S18	1392	S14 and S15 and control\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 12:01
S19	776	S14 and S15 and control\$4 and series and parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 10:43
S20	33640	(regulating module) or (current regulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 10:43
S21	333	S14 and S20 and control\$4 and series and parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 10:43
S22	12304	(regulating module) or (current regulator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 10:49

## EAST Search History

S23	21643	((light emitting diode\$3) or "LED") array)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 10:49
S24	114	S22 and S23 and control	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 10:49
S25	255	S21 not S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 11:56
S26	1	("6836157").PN.	USPAT; USOCR	OR	OFF	2006/09/01 11:56
S27	16695	current modulat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 12:01
S28	377	S14 and S27 and control\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 12:02
S29	368	S28 not S25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 12:02
S30	366	S28 not S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 12:03
S31	368	S29 or S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 12:03

## EAST Search History

S32	283	S31 and @ad < "20030120"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 12:22
S33	14	("20020047642" "20020048177" "20020070914" "20030210221" "20030214242" "20040041781" "6111560").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 12:29
S34	2	((("6836157") or ("6933707"))).PN.	USPAT; USOCR	OR	OFF	2006/09/01 12:40
S35	2	"20050276046"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/01 13:57
S36	1	("6836157").PN.	USPAT; USOCR	OR	OFF	2006/09/01 13:57
S37	21656	((light emitting diod\$3) or "LED") array)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:24
S38	2942	(current regulat\$5) and control\$4 and (pulse width modulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 10:58
S39	27980	(current regulat\$5) and control\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:27
S40	7564	362/470,479,488,490,227,231,276,802,812,540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:28
S41	833	363/89.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:29

## EAST Search History

S44	348	(340/286.01).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:32
S45	3417	(315/178,291).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:32
S46	4590	S41 or S44 or S45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:32
S47	32	S37 and S38 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:33
S48	56	S37 and S39 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:33
S49	56	S47 or S48	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/09/04 17:33
S50	2293	((light emitting diod\$3) or "LED") with strings	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 10:55
S51	710	S50 and series and parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 10:56
S52	833	controller with (multiple outputs)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:50

## EAST Search History

S53	28	S51 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 12:26
S54	64226	(pulse width modulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 10:58
S55	0	S53 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 10:59
S56	89	S51 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 10:59
S57	68	S51 and S54 and controller	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 12:23
S58	1	("6016038").PN.	USPAT; USOCR	OR	OFF	2006/12/05 11:20
S59	1	("4845481").PN.	USPAT; USOCR	OR	OFF	2006/12/05 11:21
S60	1	"20010033503"	US-PGPUB	NEAR	ON	2006/12/05 12:24
S61	2	"20030028260"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 12:28
S62	167	S50 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 12:28
S63	89	S51 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 12:28

## EAST Search History

S64	21	S63 not S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 12:49
S65	1	(("7148632") or ("6717376")).PN.	USPAT; USOCR	OR	OFF	2006/12/05 12:53
S66	0	("7148632").PN.	USPAT	OR	OFF	2006/12/05 12:53
S67	2	"20040135522"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 12:54
S68	7667	362/470,479,488,490,227,231,276, 802,812,540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 14:55
S69	0	S68 and S51 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 14:55
S70	9247	362/470,479,488,490,227,231,276, 800,802,812,540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 14:55
S71	0	S70 and S51 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 14:56
S72	35	S70 and S51 and controller	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/05 14:56
S74	67855	pulse width modulat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/12 11:48

## EAST Search History

S75	15	(("20040178737") or ("20050156540") or ("6858994") or ("20030102819") or ("6161910") or ("20030048641") or ("20070040696") or ("7135664") or ("7173383") or ("20060187081") or ("5008595") or ("6836157") or ("6577512") or ("6670776") or ("5661645")).PN.	US-PGPUB; USPAT	OR	OFF	2007/06/12 11:53
S76	11	S75 and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/12 11:53
S77	7	("5850126"   "6629766"   "6634779"   "6685339").PN. OR ("6858994").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/06/12 12:04
S78	9	("20040090787"   "20040105261"   "5803579"   "6158882"   "6445139"   "6633301"   "6641294"   "6769792").PN. OR ("7135664").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/06/12 12:06
S79	14	("20040090787"   "20040105261"   "20040135522"   "20040218387"   "20050110776"   "3760174"   "5803579"   "6127783"   "6158882"   "6441558"   "6614191"   "6641294"   "6762568"   "6769792").PN. OR ("7173383").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/06/12 12:10
S80	76	("3875456"   "3911423"   "4329625"   "4420711"   "4445132"   "4484105"   "4647927"   "4686425").PN. OR ("5008595").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/06/12 13:22
S81	2	("6016038").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 12:47
S82	1	"6016038".pn. and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/12 12:47
S83	47071	((light emitting diod\$3) or "LED") with (array or matrix or string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/12 13:22



## EAST Search History

S84	113210	(regulating module) or (current regulat\$4) or (voltage regulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/12 13:23
S85	60671	control\$4 and (pulse width modulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/12 13:25
S89	325	S83 and S84 and S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/12 13:28
S90	152	S89 and @ad < "20030115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:54
S91	17	("5896084"   "6014119"   "6023259"   "6179390").PN. OR ("6396466").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2007/06/12 14:50
S92	37	(aircraft cabin) and S83 and @ad < "20030115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:41
S93	2	("6158882").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 16:29
S94	2	("6203180").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 16:29
S95	1	("6871981").PN.	USPAT; USOCR	OR	OFF	2007/06/13 12:52

## EAST Search History

S96	91	362/471.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 12:53
S97	1119	345/82.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 12:54
S98	612	345/39,46,.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 12:56
S99	3652	315/178,291.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 12:56
S10 0	0	340/286.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:08
S10 2	67855	(pulse width modulat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:09
S10 4	18269	(current modulat\$4) or (regulating module)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:10
S10 5	23851	((light emitting diod\$3) or "LED") array)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:11

## EAST Search History

S10 6	4193	362/470,479,488,490,227,231,276, 802'8120540,544.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:12
S10 7	86	S102 and S104 and S105	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:14
S10 8	0	S107 and S96	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:14
S10 9	1	S107 and S97	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:15
S11 0	1	S107 and S98	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:15
S11 1	11	S107 and S99	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:15
S11 2	8	S107 and S106	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/06/13 13:16
S11 3	4361	362/470,479,488,490,227,231,276, 802'8120540,544.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:38
S11 4	70765	(pulse width modulat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:39

## EAST Search History

S11 5	49725	((light emitting diod\$3) or "LED") with (array or matrix or string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:40
S11 6	939043	((light emitting diod\$3) or "LED")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:40
S11 7	939043	S115 or S116	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:40
S11 8	1210	345/82.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:40
S11 9	96	362/471.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:40
S12 0	630	345/39,46,.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:41
S12 2	12801	((aircraft or vehic\$4 or ship or watercraft or marine or passanger) cabin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:44
S12 4	1239	S117 and S122	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:51

## EAST Search History

S12 5	138	S117 and S122 and S114	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:51
S12 6	3	S125 and S119	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:51
S12 7	73	S125 and @ad < "20030115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:56
S12 8	6129	S113 or S118 or S120	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:56
S12 9	276	S117 and S114 and S128	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:56
S13 0	107	S129 and @ad < "20030115"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:57
S13 1	100	S130 not S127	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/15 12:57